

WHAT IS CLAIMED IS:

1. A method for producing a cancer growth inhibiting response, comprising: administering, to a prostate cancer patient in need thereof, an effective amount of activated T cells, in which the T cells were activated *in vitro* by exposure to human dendritic cells exposed to a prostate cancer antigen.

2. The method according to claim 1, in which the prostate cancer antigen is selected from the group consisting of a lysate of LNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, a membrane preparation of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), a peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the amino acid sequence a peptide having the sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3) where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.

3. The method according to claim 1, in which the prostate cancer antigen is selected from the group consisting of:

WLCAGALVL (SEQ. ID. NO. 4); VLAGGFLL (SEQ. ID. NO. 5);
ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);
TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);
PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);
LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);
EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);
RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPGY (SEQ. ID. NO. 17);
TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19);
WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21);
DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23);
AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25);

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GYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27);
NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29);
LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31);
VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33);
ALPERPSLY (SEQ. ID. NO. 34); JVGGECEK (SEQ. ID. NO. 35);
QVHPQKVT (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37);
CYASGWGSI (SEQ. ID. NO. 38).

4. The method according to claim 2 in which the prostate cancer antigen is PSMA.

5. The method according to claim 1, in which the human dendritic cells were obtained from skin, spleen, bone marrow, thymus, lymph nodes or peripheral blood of the prostate cancer patient.

6. The method according to claim 1, in which the human dendritic cells were obtained from peripheral blood.

7. The method according to claim 1, in which the human dendritic cells are extended life span dendritic cells.

8. The method according to claim 1, in which the human dendritic cells were cryopreserved, thawed and recovered prior to their use to activate the T cells *in vitro*.

9. The method according to claim 1, in which the T cells were obtained from the prostate cancer patient.

10. The method according to claim 1, in which the T cells were obtained from a healthy individual HLA-matched to the prostate cancer patient.

11. The method according to claim 1, in which the prostate patient is suffering from metastatic prostate cancer.

12. The method according to claim 1, in which the T cells comprise purified CD8+ T cells or a mixed population of CD4+ and CD8+ T cells.

13. A method for producing a cancer growth inhibiting response, comprising: administering, to a prostate cancer patient in need thereof, an effective amount of human dendritic cells, exposed *in vitro* to a prostate cancer antigen, such that after administration the human dendritic cells elicit an immune response or augment an existing immune response against the prostate cancer.

14. The method according to claim 13, in which the prostate cancer antigen is selected from the group consisting of a lysate of LNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, a membrane preparation of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3), where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.

15. The method according to claim 13, in which the prostate cancer antigen is selected from the group consisting of:

WLCAGALVL (SEQ. ID. NO. 4); VLAGGFFLL (SEQ. ID. NO. 5);
ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);
TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);
PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);
LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);
EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);

RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPPGY (SEQ. ID. NO. 17);
TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19);
WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21);
DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23);
AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25);
GYYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27);
NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29);
LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31);
VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33);
ALPERPSLY (SEQ. ID. NO. 34); JVGGECEK (SEQ. ID. NO. 35);
QVHPQKVTK (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37);
CYASGWGSI (SEQ. ID. NO. 38).

16. The method according to claim 13 in which the prostate cancer antigen is PSMA.

17. The method according to claim 13, in which the human dendritic cells were obtained from skin, spleen, thymus, bone marrow, lymph nodes or peripheral blood of the prostate cancer patient.

18. The method according to claim 13, in which the human dendritic cells were obtained from peripheral blood.

19. The method according to claim 13, in which the dendritic cells were obtained from a healthy individual HLA-matched to the prostate cancer patient.

20. The method according to claim 13, in which the dendritic cells are extended life span dendritic cells.

21. The method according to claim 13, in which the human dendritic cells were cryopreserved and then thawed prior to administration to the prostate cancer patient.

22. The method according to claim 13, in which the prostate cancer patient is suffering from metastatic prostate cancer.

23. A composition, comprising: isolated human dendritic cells which following exposure, *in vitro*, to a prostate cancer antigen have been cryopreserved.

24. The composition according to claim 23, in which the dendritic cells were cryopreserved following exposure to a prostate cancer antigen selected from the group consisting of a lysate of LNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), a peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the amino acid sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3), where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.

25. The composition according to claim 23, in which the prostate antigen is selected from the group consisting of:

WLCAGALVL (SEQ. ID. NO. 4); VLAGGFFLL (SEQ. ID. NO. 5);
ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);
TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);
PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);
LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);
EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);
RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPPGY (SEQ. ID. NO. 17);
TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19);

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WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21);
DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23);
AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25);
GYYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27);
NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29);
LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31);
VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33);
ALPERPSLY (SEQ. ID. NO. 34); JVGGWECEK (SEQ. ID. NO. 35);
QVHPQKVTK (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37);
CYASGWGSI (SEQ. ID. NO. 38).

26. The composition according to claim 23, in which the dendritic cells are extended life span dendritic cells.

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